(12) 按照专利合作条约所公布的国际申请

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(43) 国际公布日: 2004年5月6日(06.05.2004)

PCT

(10) 国际公布号: WO 2004/038570 A1

(51) 国际分类号7:

G06F 3/00, H01R 13/52

(21) 国际申请号:

PCT/CN2003/000896

(22) 国际申请日:

2003年10月24日(24.10.2003)

(25) 申请语言:

中文

(26) 公布语言:

中文

(30) 优先权:

02282360.3

2002年10月25日(25.10.2002)

) CN

- (71) 申请人(对除美国以外的所有指定国): 互亿科技股份有限公司(BILLIONTON SYSTEMS INC.) [CN/CN];中国台湾省新竹市水利路21号, Taiwan (CN)。
- 72) 发明人:及
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- (74) 代理人: 北京北新智诚知识产权代理有限公司 (BEIJING BEIXIN-ZHICHENG INTELLECTUAL PROPERTY AGENT CO., LTD.); 中国北京市西城 区西直门内南大街16号, Beljing 100035 (CN)。
- (81) 拊定国(国家): AE(UM), AG, AL(UM), AM(UM), AT(UM), AU, AZ(UM), BA, BB, BG(UM), BR(UM),

BY(UM), BZ(UM), CA, CH, CO(UM), CR(UM), CU, CZ(+UM), DE(+UM), DK(+UM), DM, DZ, EC(UM), EE(+UM), EG, ES(UM), FI(+UM), GB, GD, GE, GH, GM, HR, HU(UM), ID, IL, IN, IS, JP(UM), KE(UM), KG, KP, KR(UM), KZ(UM), LC, LK, LR, LS(UM), LT, LU, LV, MA, MD(UM), MG, MK, MN, MW, MX(UM), MZ(UM), NI, NO, NZ, OM, PG, PH(UM), PL(UM), PT(UM), RO, RU(UM), SC, SD, SE, SG, SK(+UM), SL(UM), SY, TJ(UM), TM, TN, TR(UM), TT(UC), TZ, UA, UG(UC), US, UZ, VC, VN(PUS), YU(PP), ZA, ZM, ZW

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UM:实用新型; +UM:专利和实用新型; PP:小专利; UC:实用证书; PUS:实用方案专利

根据细则4.17的声明:

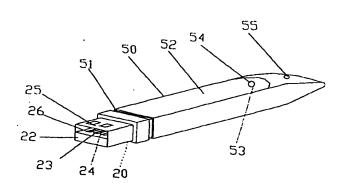
— 发明人资格(细则4.17(iv))仅对美国

本国际公布:

- 包括国际检索报告。

所引用双字母代码和其它缩写符号,请查考刊登在每期 PCT公报期刊起始的"代码及缩写符号简要说明"。

- (54) Title: NFORMATION MEANS WITH WATERPROOF AND TRANSMITTING LIGHT CHARACTERISTIC
- (54) 发明名称: 兼具防水和导光性能的资讯装置



(57) Abstract: The utility model provides a information means with waterproof and transmitting light characteristic, the joint forms waterproof characteristics by waterproof member and outer layer, the waterproof cover of the terminal connects the joint and the outer layer, and prevents water inleakage, it can be used under the environment of water, acidum and alcali, the waterproof member forms waterproof characteristic and has lucidity transmitting light characteristic, at the same time it can guide the channel of the light and the display of the light, so distinguishing action status at night is provided, and the effect of expediently usage and simply distinguish is achieved.

[见续页]

(57) 摘要

本实用新型提供一种兼具防水和导光性能的资讯装置,通过接头以防水构件、外层形成防水特性,端子的防水套与接头且与外层套合,提供防水渗入、可在含水及酸、碱的环境使用,此防水构件形成防水特性、并具有透明导光特性,同时导引光线的通道、可导引光线显示,提供夜间裸视辨别作动状态,达到多元化方便使用、简易快速辨识的功效者。



From the INTERNA

NAL BUREAU

To:

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 72.2)

BEUING BEIXIN-ZHICHENG INTELLECTUAL PROPERTY AGENT CO., LTD No.16, Xizhimen Nandajie Xicheng District Beijing 100035 CHINE

IPORTANT NOTIFICATION
e (day/month/year) 103 (24.10.2003)
at 20

BILLIONTON SYSTEMS INC. et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

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The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Nora Lindner

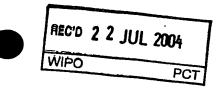
Facsimile No.+41 22 338 89 65

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Facsimile No.+41 22 740 14 35



PCT



Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER A	CTION	See Form PCT/IPEA/416		
PCTCN03-55YQ			Sec Point F C1/11 EAU-410		
International application No.	International filing da		Priority date (day/month/year)		
PCT/CN03/00896		003(24.10.03)	25.Oct.2002(25.10.02)		
International Patent Classification (IPC) or		nd IPC			
IPC7:G06F3/00 H	01R13/52				
Applicant					
BILLIONTON SYSTEMS	INC ETAL				
This report is the international preliming under Article 35 and transmitted to the second control of the	inary examination report e applicant according to	rt, established by this Inte	mational Preliminary Examining Authority		
2. This REPORT consists of a total of	3	sheets, including th	is cover sheet.		
3. This report is also accompanied by Al	NNEXES comprising:				
_		No. Associated			
a. [] (sent to the applicant and to a sheets of the description	•	•	sheets, as follows: sheets, as follows: ded and are the basis of this report and/or		
sheets containing rectific Instructions).	cations authorized by the	nis Authority (see Rule 70	0.16 and Section 607 of the Administrative		
sheets which supersede	earlier sheets, but which	h this Authority consider	s contain an amendment that goes beyond		
the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. [] (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
containing a sequence lists Supplemental Box Relating t	ng and/or tables relate to Sequence Listing (see	ed thereto, in computer e Section 802 of the Admi	readable form only, as indicated in the inistrative Instructions).		
4. This report contains indications relati	ng to the following item	ne.			
Box No. I Basis of the re	_				
Box No. II Priority	P 011				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					
citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of submission of the demand					
25.May2004 (25.05.0	4)	Date of completion of the	•		
23.1411192004 (23.03.0	47	Z4.J	un 2004 (24.06.04)		
Name and mailing address of the IPEA/		Authorized officer	范 隆		
6 Xitucheng Rd., Jimen Bridge, Haidian Di 100088 Beijing, China			CHENTAUTH		
Facsimile No. 86-10-62019451	***	Telephone No. (86-10	0) 62084557		
	2004)	1010phono 110. (00-11	-,		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILIT	REPORT ON PATENTABILITY
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1	International application No.
l	RCT/CN03/00896

Box No. 1	Basis of the report
1. With others	regard to the language, this report is based on the international application in the language in which it was filed, unless rise indicated under this item.
	his report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
	international search (under Rules 12.3 and 23.1(b))
ł	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
to the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not ed to this report):
	he international application as originally filed/furnished
L	he description: pages
	as originally fried/turnished
	pages received by this Authority on pages received by this Authority on
LJ t	ne claims:
	pagesas originally filed/furnished pages * as amended (together with any extrement) and A side 1.00
	and any statement funder Article 19
•	pages received by this Authority on pages received by this Authority on
	pages as originally filed/furnished pages received by this Authority on pages received by this Authority on received by this Authority on sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. 🔲 7	he amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
4. 🔲 T	nis report has been established as if (some of) the amendments annexed to this report and listed below had not been made, note they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, Nos.
į	the drawings, sheets/figs
	the sequence listing (specify):
* FC2+-	any table(s) related to sequence listing (specify):
ıj ue	n 4 applies, some or all of those sheets may be marked "superseded."

l	
In	ional application No.
	PCT/CN03/00896

Reasoned statement und	r Article 35(2) with regard to novelty, inventive step or i	ndustrial applicability;
nt:	s supporting such statement	
evelty (N)	Claims 1-7 Claims	YES NO
entive step (IS)	Claims 1-7 Claims	YES NO
strial applicability (IA)	Claims 1-7	YES NO
	entive step (IS)	covelty (N) Claims Claims I-7 Claims I-7 Claims I-7 Claims Strial applicability (IA) Claims 1-7

2. Citations and explanations (Rule 70.7)

Claim 1 relates to a information means with waterproof and transmitting light characteristic.

Documents cited in this International Search Report are:

CN2495017Y

CN1292528A

JP11007993A

JP10223300A

DE20105908U1

DE20208316U1

None of the documents cited in the International Search Report discloses the solution to this problem in Claim 1 of the present application, and the combination of features according to Claim 1 cannot be obviously derived from the available state of the art or form the common knowledge of the person skilled in art, so, Claim 1 meets the requirements of Art.33(2),33(3)PCT.

Claims 2-7 are dependent on Claim 1 and also meet the requirements of Art.33(2),33(3)PCT.